

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re application of	)	Group Art Unit:
	)	
Burkard Otto HERBERT	)	Examiner:
Stefan WANDER	)	
	)	
Application No. :	10/540,209	)
	)	
Filed :	June 20, 2005	)
	)	
For :	DEVICE FOR	)
	TRANSMITTING AND	)
	CONVEYING A STRIP OF	)
	MATERIAL AND METHOD	)
	FOR REGULATING	)
	THESE DEVICES	)

**SUBMISSION OF MATERIALS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The subject U.S. patent application, as filed, included copies of German language elements which were contained in the prosecution of the PCT application from which the subject application claims priority. There are submitted herewith English language translations of these documents, as follows:

- A) International Search Report, dated May 3, 2004
- B) Letter from KBA dated June 17, 2004, with Article 19 Amendments
- C) Written Notification dated September 27, 2004
- D) Letter from KBA dated December 6, 2004 with Article 34 Amendments
- E) IPER dated February 28, 2005

Entry of these materials into the file of the subject U.S. patent application, and  
their consideration by the Examiner is respectfully requested.

Respectfully submitted,

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May 24, 2006  
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Translation of the pertinent portions of an International Search Report or the Declaration, mailed 05/03/2004

This International Search Report comprises a total of four pages. Copies of the cited references are enclosed.

4. Regarding the title of the invention the wording filed by Applicant is approved.
5. Regarding the abstract the wording has been determined by the Office in accordance with Rule 38.2b) in the version shown in Field III [and as it appears on the cover page of the published PCT application]
6. Fig. 1 is to be published with the abstract, since Applicant has not suggested a drawing figure.

Translation of the pertinent portions of a response by KBA,  
dtd. 06/17/2004

**RESPONSIVE TO THE FORWARDING OF THE INTERNATIONAL  
SEARCH REPORT OR THE DECLARATION of 05/03/2004**

Claims 1 to 46, amended under Art. 19 PCT, are being filed.

(Replacement pages 28 to 36, version of 06/17/2004).

New claim 1 was formed from the characteristics of original claims 1, 8, 10 and 11.

New claim 3 is formed from original claim 3, as well as from characteristics disclosed on page 9, paragraph 1, of the specification. The expression "motor-driven" was cancelled, since this is not primarily important for the movement of the two formers here.

Claims 2 and 4 to 11 remain unchanged. The superfluous letter "S" in claim 11 was removed.

New claim 12 was formed from characteristics of original claims 12 and 13.

New claim 13 was formed from characteristics of original claims 14 and 17.

Original claims 15, 16 and 18 to 35 were renumbered as new claims 14 to 33 and their dependency was amended as needed.

The expression "has a sliding block (...) which" in claim 33 was cancelled.

A new claim 34 was formed from characteristics of original claim 35.

Original claims 36 to 47 were renumbered as new claims 35 to 46 and their dependency was amended as needed.

Enclosures

Claims, replacement pages 28 to 36, version of 06/17/2004 in triplicate.

Claims

1. A device for processing and/or conveying a web in a machine which works on a web and/or processes a web, having at least one web processing tool (06, 07, 05, 28, 32) embodied as a former (06, 07), or as a cutter (05, 28, 32) arranged on the web path upstream of the latter, wherein the cutter (05, 28, 32) and the former (06, 07) are movable by at least one actuating member (08, 11, 34) transversely to the running direction of the web of material (01, 02, 26, 36), characterized in that a turning bar unit (72) with at least one turning bar (37, 38) is arranged upstream of the former (06, 07), the turning bar (37, 38) and the former (06, 07) can be moved transversely in respect to the running direction of the web of material (01, 02, 26, 36) by drive mechanisms (11, 49) which are respectively mechanically independent of each other, and that the drive mechanism (11) of the former (06, 07) and the drive mechanism (49) of the turning bar (37, 38) are in a logical functional connection with a common control device (10, S).

2. The device in accordance with claim 1, characterized in that the former (06, 07) and the cutter (05, 28, 32) are arranged on a common stand (15) and can be moved by means of a common drive mechanism (11).

3. A device for processing and/or conveying a web in a machine which works on a web and/or processes a web, having

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at least one web processing tool (06, 07, 30) embodied as a former (06, 07), and with a web processing tool (06, 07, 30) embodied as a motor driven roller (30) arranged on the web path downstream of the latter, characterized in that two outer and one central former (06, 07) are provided, wherein in case of a change of the width of the partial webs the two outer formers (06, 07) can be displaced and the center one remains in place, and that the displaceable former (06, 07) and the assigned roller (30) are movable by at least one actuating member (08, 11) transversely to the running direction of the web of material (01, 02, 26, 36).

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4. The device in accordance with claim 3, characterized in that the former (06, 07) and the roller (30) are arranged on a common stand (15) and can be moved by means of a common drive mechanism (11).

5. The device in accordance with claim 3, characterized in that a cutter (05, 28, 32), arranged upstream of the former (06, 07), and the former (06, 07) can be moved by at least one actuating member (08, 11, 34) transversely to the running direction of the web of material (01, 02, 26, 36).

6. The device in accordance with claim 1 or 5, characterized in that the cutter (28, 32) is embodied as a cutter (28, 32) of a longitudinal cutting arrangement (71) arranged upstream of the former (06, 07), which has a lateral drive mechanism (34) which is mechanically independent of a drive mechanism (11) of the former (06, 07).

7. The device in accordance with claim 6, characterized in that the drive mechanism (11) of the former (06, 07) and the drive mechanism (34) of the cutter (28, 32) are in a logical functional connection with a common control device (10, S).

8. The device in accordance with claim 1 or 6, characterized in that a turning bar unit (72) with at least one turning bar (37, 38) is arranged upstream of the former (06, 07).

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9. The device in accordance with claim 6 and 8, characterized in that the longitudinal cutting arrangement (71) is placed upstream of the turning bar unit (72).

10. The device in accordance with claim 8, characterized in that the turning bar (37, 38) and the former (06, 07) can be moved transversely in respect to the running direction of the web of material (01, 02, 26, 36) by drive

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mechanisms (11, 49) which are respectively mechanically independent of each other.

11. The device in accordance with claim 10, characterized in that the drive mechanism (11) of the former (06, 07) and the drive mechanism (49) of the turning bar (37, 38) are in a logical functional connection with a common control device (10, S).

12. A device for processing and/or conveying a web in a machine which works on a web and/or processes a web, having at least one web processing tool (06, 07) embodied as a former (06, 07), and with a turning bar unit (72) arranged upstream of the latter on the web path, having at least one web processing tool (37, 38) designed as a turning bar (37, 38), characterized in that the turning bar (37, 38) and the former (06, 07) can be moved transversely in respect to the running direction of the web of material (01, 02, 26, 36) by drive mechanisms (11, 49), which are respectively independent of each other, and the drive mechanism (11) of the former (06, 07) and the drive mechanism (49) of the turning bar (37, 38) are in a logical functional connection with a common control device (10, S).

13. A device for processing and/or conveying a web in a machine which works on a web and/or processes a web, having a longitudinal cutting arrangement (71) with at least one web processing device (28, 32) embodied as a cutter (28, 32), as well as a turning bar unit (72) arranged downstream thereof

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on the web path and having at least one web processing tool designed as a turning bar (37, 38), characterized in that the cutter (28, 32) and the turning bar (37, 38) can be moved transversely in respect to the running direction of the web of material (01, 02, 26, 36) by drive mechanisms (34, 49), which are respectively independent of each other, and that the drive mechanism (34) of the cutter (28) and the drive mechanism (49) of the turning bar (37, 38) are in a logical functional connection with a common control device (10, S).

14. The device in accordance with claims 6, 9 or 14, characterized in that the longitudinal cutting arrangement (71) has at least two cutters (28), which are spaced apart from each other transversely to the web running direction and can be moved in relation to each other by a common drive mechanism (34) transversely in respect to the web, but in opposite directions.

15. The device in accordance with claims 8, 9, 12 or 14, characterized in that the turning bar unit (72) has at least two turning bars (37, 38), which are spaced apart from each other transversely in relation to the web running direction of an incoming web and which can be moved transversely in respect to the web by means of a common drive mechanism (49).

16. The device in accordance with one or several of claims 7, 11, 13 or 17, characterized in that the logical functional connection is designed in such a way that the setting of the drive mechanisms (11, 34, 49) can take place in a common work step, in particular in the course of a setting process, as a result of a program flow.

17. The device in accordance with one or several of claims 7, 11, 12, 13 or 16, characterized in that the control device (10, S) is designed to determine a suitable desired position of the respective web processing tool (05, 06, 07, 28, 30, 32, 37, 38) from information regarding the web width and/or an intended web path, and to act on the respective

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drive mechanism (11, 34, 49).

18. The device in accordance with one or several of claims 7, 11, 12 or 13, characterized in that the control unit (10, S) comprises a user interface for entering and/or reading in the width of a web (01, 02, 12, 13, 26, 36, 51, 52, 53, 54) to be processed, computing means for determining a desired position of the movable web processing tool (05, 06, 07, 16, 28, 30, 32, 37, 38) by means of the web width, as

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well as drivers for triggering the drive mechanisms (11, 23, 34, 49) for setting the respectively determined desired position.

19. The device in accordance with one or several of claims 7, 11, 12, 13 or 16, characterized in that several drive mechanisms (11, 23, 34, 49) are triggered by the common control unit (10, S).

20. The device in accordance with one of the preceding claims, characterized in that at least two formers (06, 07) are provided, at least one of which can be moved transversely.

21. The device in accordance with one of the preceding claims, characterized in that at least two web processing tools (16), which roll off on a cylinder (03) and are designed as rollers (16), at least one of which can be moved transversely, are provided for pressing the web of material against the cylinder (03).

22. The device in accordance with claim 21, characterized in that the rollers (16) are interceptor rollers (16) or traction rollers (16).

23. The device in accordance with one of the preceding claims, characterized in that the cutter (28, 32) is designed for the continuous longitudinal cutting of the web (26, 36) of material.

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24. The device in accordance with one of the preceding claims, characterized in that the cutter (05) is designed as an interval cutter (05) for longitudinally cutting the web (01, 02, 12, 13) into lengths of a page.

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25. The device in accordance with one of the preceding claims, characterized in that at least one transversely movable roll arm of a roll changer is provided as a further web processing tool to be set.

26. The device in accordance with one of the preceding claims, characterized in that at least one transversely movable sensor device for the cutting registration is provided as a further web processing tool to be set.

27. The device in accordance with one of the preceding claims, characterized in that at least one transversely movable sensor device for the color registration is provided as a further web processing tool to be set.

28. The device in accordance with one of the preceding claims, characterized in that at least one transversely movable web edge regulating device is provided as a further web processing tool to be set.

29. The device in accordance with one of the preceding claims, characterized in that at least one transversely movable paddle wheel is provided as a further web processing tool to be set in the outlet of a folding apparatus.

30. The device in accordance with one of the preceding claims, characterized in that at least one transversely movable gluing nozzle of a gluing device is provided as a

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further web processing tool to be set.

31. The device in accordance with one of the preceding claims, characterized in that at least one transversely movable device for forming a second longitudinal fold is provided as a further web processing tool to be set.

32. The device in accordance with one of the preceding claims, characterized in that at least one transversely

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movable device for longitudinal perforation is provided as a further web processing tool to be set.

33. The device in accordance with one of the preceding claims, characterized in that at least one actuating member (08, 11, 22, 23, 33, 34, 48, 49) has a rotatable threaded spindle (08, 22, 33, 48), and that every displaceable web processing tool (05, 06, 07, 16, 28, 30, 32, 37, 38) is in engagement with the threaded spindle (08, 22, 33, 48).

34. The device in accordance with claim 33, characterized in that every displaceable web processing tool (05, 06, 07, 16, 28, 30, 32, 37, 38) coupled to the actuating member (08, 11, 22, 23, 33, 34, 48, 49) has a sliding block (09, 18, 19, 21, 42, 43, 44, 46), which is in engagement with the threaded spindle (08, 22, 33, 48).

35. The device in accordance with claim 33 or 34, characterized in that several displaceable web processing tools (06, 07, 16, 28, 37, 38) of the same type are in engagement with an identical threaded spindle (08, 22, 33, 48).

36. The device in accordance with claim 35, characterized in that the threaded spindle (08, 22, 33, 48) has several sections rotating in different directions, and that at least one of the web processing tools (06, 07, 16, 28, 37, 38) is in engagement with each section.

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37. The device in accordance with one of claims 33 to 36, characterized in that the threaded spindle (08, 22, 33, 48) is rotatingly driven by an electric motor (11, 23, 34, 49) controlled by the control unit (10, S).

38. The device in accordance with one of claims 33 to 37, characterized in that threaded spindle (08, 22, 33, 48)

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has several sections of different gradients, and that at least one of the web processing tools (06, 07, 16, 28, 37, 38) is in engagement with each section.

39. The device in accordance with claim 1 or 3, characterized in that the former (06, 07) and a roller (03) having a groove (25) can be moved together.

40. The device in accordance with claims 6, 12 or 13, characterized in that the drive mechanisms (11, 23, 34, 49) can be triggered by means of a common control unit (10, S) in regard to positioning the respective web processing tool (06, 07, 05, 28, 30, 32, 37, 38) in respect to the web.

41. A method for setting web processing tools of a machine which works on a web and/or processes a web, having a former (06, 07) and an upstream arranged cutter (28, 32) for a longitudinal cut of the web, characterized in that prior to the start of a production run the actual position of the cutter (28, 32) and of the former (06, 07) in regard to presetting values required for the planned production run are checked by a system (S), and/or presetting is performed by the system (S) acting on the drive (11) of the former (06, 07), as well as the drive mechanism (34) of the cutter (28, 32).

42. A method for setting web processing tools of a machine which works on a web and/or processes a web, having a former (06, 07) and an upstream arranged turning bar (37,

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38), characterized in that prior to the start of a production run the actual position of the turning bar (37, 38) and of the former (06, 07) in regard to presetting values required for the planned production run are checked by a system (S), and/or presetting is performed by the system (S) acting on the drive (11) of the former (06, 07), as well as the drive mechanism (49) of the turning bar (37, 38).

43. A method for setting web processing tools of a machine which works on a web and/or processes a web, having a cutter (28, 32) for longitudinal cutting of the web and a downstream arranged turning bar (37, 38), characterized in that prior to or during the start of the production run the actual position of the cutter (28, 32) and of the former (06, 07) in regard to presetting values required for the planned production run are checked by a system (S), and/or presetting is performed by the system (S) acting on the drive (11) of the former (06, 07), as well as the drive mechanism (34) of the cutter (28, 32).

44. The method in accordance with claim 42, characterized in that presetting is also performed by the system (S) acting on a drive mechanism (34) of a cutter (28, 32) arranged upstream of the turning bar (37, 38).

45. The method in accordance with one or several of claims 41 to 44, characterized in that presetting is also performed by the system (S) acting on a drive mechanism of a longitudinal registration arrangement placed downstream of the drive mechanism of the turning bar (37, 38).

46. The method in accordance with one or several of claims 41 to 44, characterized in that presetting is also performed by the system (S) acting on the drive mechanism of at least one roll arm of a roll changer.